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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,885	10/19/2005	Laurent AlhadeF		9890

7590
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EXAMINER

NGUYEN, LUONG TRUNG

ART UNIT	PAPER NUMBER
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2622

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04/01/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/553,885	Applicant(s) ALHADEF, LAURENT	
	Examiner LUONG T. NGUYEN	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) 4-10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because the abstract should be limited to a single paragraph on a separate sheet within the range of 50 to 150 words. Correction is required. See MPEP § 608.01(b).

Claim Objections

4. Claims 1-10 are objected to because of the following informalities:

Claim 1 (line 1), "The invention consists of a process" should be changed to --A process--.

Claim 1 (line 2), "a viewing device" should be changed to --a viewing device (10, 10')--.

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Claim 1 (lines 2-3), "video images" should be changed to --video images (I)--.

Claim 1 (line 3), "a trajectory" should be changed to --a trajectory (t)--.

Claim 1 (line 6), "A preliminary step" should be changed to --a preliminary step--.

Claim 1 (lines 6, 9), "the said viewing device" should be changed to --said viewing device--.

Claim 1 (lines 9-10), "to the said reference point" should be changed to --to said defined reference point--.

Claim 1 (line 11), "A first step" should be changed --a first step--.

Claim 1 (line 11), "the said data signals" should be changed to --said data signals--.

Claim 1 (lines 12-13), "the said trajectory" should be changed to --said trajectory--.

Claim 1 (line 13), "their transmission to" should be changed to --the transmission of said data signals to--.

Claim 1 (line 14), "these data (4)" should be changed to --said data signals--.

Claim 1 (lines 6, 9), "the said viewing device" should be changed to --said viewing device--.

Claim 1 (line 16), "A second step" should be changed to --a second step--.

Claim 1 (line 16), "the said data" should be changed to --said data signals--.

Claim 1 (line 17), "the said coordinates" should be changed to --said coordinates--.

Claim 2 (line 1), "Furthermore, the invention includes a process," should be changed to --The process--.

Claim 2 (line 2), "the said reference point (XYZ)" should be changed to --said defined reference point (XYZ)--.

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Claim 2 (lines 2-3), “the said coordinates” should be changed to --said coordinates--.

Claim 2 (line 4), “the said trajectory (t)” should be changed to --said trajectory (t)--.

Claim 2 (line 4), “the said trihedron of” should be changed to --said orthonormal trihedron of--.

Claim 2 (line 6), “the said viesing device” should be changed to --said viewing device--.

Claim 2 (lines 6-7), “the said axis intersecting” should be changed to --said axis intersecting--.

Claim 3 (line 1), “Furthermore, the invention includes a process,” should be changed to --The process--.

Claim 3 (lines 2-3), “the said subsystem should be changed to --said subsystem--.

Claim 3 (lines 4-5), “the said first” should be changed to --said first--.

Claim 3 (line 6), “the said viewing device” should be changed to --said viewing device--.

Claim 3 (lines 7-8), “the said second subsystem (12, 2). In another supplementary preliminary step” should be changed to --said second subsystem (12, 2); and in another supplementary preliminary step--.

Claim 3 (line 8), “the said inertial sensing unit” should be changed to --said inertial sensing unit--.

Appropriate correction is required.

5. Claims 4-10 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in alternative only and cannot depend from

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any other multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims 4-10 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Alhadeef et al. (US 7,187,401).

Regarding claim 1, Alhadeef et al. discloses a process for transmitting the positional coordinates of a viewing device during the acquisition of a sequence of video images while the viewing device is moving through space along a trajectory determined with respect to a defined reference point, characterized according to at least the following steps:

a preliminary step consisting of attaching the said viewing device (video camera, figures 2A-2C, column 7, lines 35-49) to a first subsystem (first subsystem 2, figures 2A-2C, column 7, lines 35-49) which contains an inertial sensing unit (GPS 38, figure 2A, column 8, lines 4-15, lines 28-34) delivering data signals representing the spatial coordinates and the instantaneous inclination of the said viewing device with respect to the said reference point (see figure 1);

a first step involving the acquisition, in real time, of the said data signals during the movement of the said viewing device along the said trajectory (column 11, lines 33-44; column

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13, lines 32-67) and their transmission to a second subsystem (second subsystem 4, figures 2A-2C, column 8, lines 53-61) which includes equipment for processing these data using a stored software program (column 15, lines 14-23); and

a second step consisting of processing the said data, either in real time or deferred for later analysis, so as to determine the said coordinates of position (the position of the video camera can be determined by image processing, column 13, lines 60-67).

Regarding claim 2, Alhadeef et al. discloses wherein the said reference point is an orthonormal trihedron (see figure 1) and the said coordinates represent the position of the said viewing device along the said trajectory in relation to the axes of the said trihedron of reference and the inclination data represents the angles of azimuth, elevation and roll around the axis of the said viewing device the said axis intersecting the center of the focal plane of the said images (column 12, lines 17-22).

Regarding claim 3, Alhadeef et al. discloses wherein, during a supplementary preliminary step, the said second subsystem is configured in a manner conforming to the description of the characteristics of the components comprising the said first and second subsystems, including the characteristics of the said viewing device and of the software contained in the data processing unit of the said second subsystem (figures 2A-2C, column 7, lines 35-49; column 8, lines 52-62). In another supplementary preliminary step, the said inertial sensing unit is initialized and standardized with respect to a reference point of origin (column 11, lines 34-64).

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Murphy et al. (US 6,282,362) discloses geographical position/image digital recording and display system.

Kojima (US 5,262,867) discloses electronic camera and device for panoramic imaging and object searching.

Tanaka (US 7,477,295) discloses system and method of photography using digital camera capable of detecting information on a photographed site.

Kimura et al. (US 5,913,078) discloses camera utilizing satellite position system.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T. NGUYEN whose telephone number is (571)272-7315. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID L. OMETZ can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LUONG T NGUYEN/
Examiner, Art Unit 2622
3/28/09